



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/799,183	03/12/2004	Scott J. Campbell	X-1449 US	8162
24309	7590	12/08/2004	EXAMINER	
XILINX, INC ATTN: LEGAL DEPARTMENT 2100 LOGIC DR SAN JOSE, CA 95124			ELISCA, PIERRE E	
		ART UNIT	PAPER NUMBER	
		3621		

DATE MAILED: 12/08/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No.	Applicant(s)	
	10/799,183	CAMPBELL ET AL.	
Examiner	Art Unit		
Pierre E. Elisca	3621		

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1) Responsive to communication(s) filed on 12 March 2004.

2a) This action is **FINAL**. 2b) This action is non-final.

3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

4) Claim(s) 1-18 is/are pending in the application.
4a) Of the above claim(s) _____ is/are withdrawn from consideration.

5) Claim(s) _____ is/are allowed.

6) Claim(s) 1-3,6-9,12-15 and 18 is/are rejected.

7) Claim(s) 4,5,10,11,16 and 17 is/are objected to.

8) Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

9) The specification is objected to by the Examiner.

10) The drawing(s) filed on _____ is/are: a) accepted or b) objected to by the Examiner.

 Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

 Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
a) All b) Some * c) None of:
1. Certified copies of the priority documents have been received.
2. Certified copies of the priority documents have been received in Application No. _____.
3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1) Notice of References Cited (PTO-892)
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date _____.
4) Interview Summary (PTO-413)
Paper No(s)/Mail Date _____.
5) Notice of Informal Patent Application (PTO-152)
6) Other: _____.

DETAILED ACTION

1. This Office action is in response to Application No. 10/799,183 filed on 03/12/2004.
2. Claims 1-18 are pending.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

4. Claims 1-18 are rejected under 35 U.S.C. 103 (a) as being unpatentable over Park (U.S. Pat. No. 5,757,909) in view of Luyster (U.S. Pat. No. 6,578,150).

As per claims 1-3, 6-9, 12-16, and 18 Park substantially discloses an illegal view and copy protection method in a digital video system for preventing an illegal user viewing the digital video system and copying therefrom, the method comprising the step of: Generating a set of attempts keystream bits, generating, from a current seed, a set of current keystream bits (see., abstract, col 6, lines 29-61, col 9, lines 64-67, col 10, lines 1-7).

Park fails to explicitly disclose the steps of generating test bits, cipher bits, and comparing the keystream bits. However Luyster discloses a data encryption system for encrypting an n-bit block of input in a plurality of rounds , where n is 128 bits (see., abstract, col 2, lines 23-42, col 27, lines 48-65, col 28, lines 43-64). It wiuld have been

obvious to a person of ordinary skill in the art at the time the invention was made to modify the teaching of Park by including the limitation detailed above as taught by Luyster because this would prevent an illegal user from decoding digital keystreams.

Claim Rejections - 35 USC § 101

5. 35 U.S.C. 101 reads as follows:

Whoever invents or discovers any new and useful process, machine, manufacture, or composition of matter, or any new and useful improvement thereof, may obtain a patent therefor, subject to the conditions and requirements of this title.

6. Claims 1, 7, and 12 are rejected under 35 U.S.C. 101 because it is directed to non-statutory subject matter, specifically, as directed to an abstract idea.

Claims 1 and 7 recite a method for decoding a keystream which do not define any structural and functional interrelationships with a general purpose computer for permitting the claimed functions to be realized. In contrast, a statutory claim would define structural and functional interrelationships between data structures and functional parts and a computer which permit the data functions to be realized. Thus, the claims are rejected as being non-statutory as described above.

Computer program not claimed as embodied in computer-readable media are descriptive material per se are not statutory because they are neither physical "thing" nor statutory processes. Claim 12 recites a parallel keystream decoder which do not define any structural and functional interrelationships with a general purpose computer for permitting the claimed functions to be realized. In contrast, a statutory claim would define structural and functional interrelationships between data structures and functional

parts and a computer which permit the data functions to be realized. Thus, the claim is rejected as being non-statutory as described above.

Allowable Subject Matter

7. Claims 4, 5, 10, 11, 16, and 17 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Conclusion

8. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Pierre E. Elisca whose telephone number is 703 305-3987. The examiner can normally be reached on 6:30 to 5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, James Trammell can be reached on 703 305-9769. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).



Pierre Eddy Elasca

Primary Patent Examiner

December 06, 2004